

*Girl Scouts Silver Award
Community Service Project
to Reduce Plastic Pollution*

The Idea

- Saving the oceans of Half Moon Bay/El Granada from plastic waste
- Installing a refillable water bottle station at Johnson Pier public bathroom

60% of wildlife have decreased since 1970!

One plastic bottle takes ~450 years to decompose!

Why Johnson Pier?

- ❖ Actively used by locals and tourists
- ❖ Available plumbing
- ❖ Easily accessible
- ❖ Major sports and fishing harbor
- ❖ Many public events hosted
- ❖ Attracts tourism
- ❖ Coastal trail heavily used

Benefits of Refillable Water Bottle Stations

- ❖ Cleaner
- ❖ Encourages hydration
- ❖ Reduces Spending
- ❖ Helps Environment

Data Analysis

- ❖ Plastic bottles are the 3rd most-littered item in the world
- ❖ Studies have proven that water bottle refill stations reduce single-use plastic bottles
 - [The Success of Water Refill Stations Reducing Single-Use Plastic Bottle Litter](#)
 - [The Use and Efficacy of Water Bottle Filling Stations as a Sustainability Initiative for Reducing Environmental Impact](#)

Estimated Costs

❖ Product cost

HALSEY TAYLOR 4405BF

- \$2,562.85

ELKAY VRC8WSK - \$1,869.85

❖ Installation cost - Yet to be determined. Estimated amount \$2,000-\$3,000

❖ Maintenance cost - Yet to be determined



Johnson Pier
Public
Bathroom





HALSEY
TAYLOR
4405BF

bottlefillingstations.com

\$2562.85

L: 10"

W: 19-1/8"

H: 32"



ELKAY
VRC8WSK

bottlefillingstations.com

\$1,869.85

Stainless Steel

L: 18"

W: 18-5/8"

H: 38-13/16"

Measuring the Effectiveness

- ❖ Survey local beach cleanup organizations
- ❖ Elkay bottle filling station has a bottle counter on it

Overall Plan

Once Harbor District approves plans to move forward:

- ❖ Finalize location
 - Johnson Pier
- ❖ Purchase Water Refill Station (\$1800 - \$2600)
- ❖ Contact contractor and get an estimate for installation
- ❖ Use small business profits and possible GoFundMe account for expenses



Thank you!